

**JUN/FY06**

**MISSOURI ARMY  
NATIONAL GUARD**

**Army Defense Environmental  
Restoration Program  
Installation Action Plan**

Final 7 July 2006

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## Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year Cleanup Program for an installation. The plan will identify environmental cleanup requirements at each site or area of concern, and propose a comprehensive, installation-wide approach, with associated costs and schedules, to conduct investigations and necessary remedial actions.

In an effort to coordinate planning information between the US Army Environmental Center (USAEC) and Missouri Army National Guard, an IAP was completed. The IAP is used to track requirements, schedules and tentative budgets for all Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change.

The following agencies contributed to the formulation and completion of this Installation Action Plan:

**Company/Installation/Branch**

Engineering and Environment Inc. for USAEC  
ICI, Ilc

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## Acronyms & Abbreviations

<b>AEDB-R</b>	Army Environmental Database Restoration
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation and Liability Act of 1980
<b>FS</b>	Feasibility Study
<b>FY</b>	Fiscal Year
<b>IAP</b>	Installation Action Plan
<b>IRA</b>	Interim Remedial Action
<b>IRP</b>	Installation Restoration Program
<b>LTM</b>	Long Term Management
<b>MC</b>	Munitions Constituents
<b>MEC</b>	Munitions and Explosives of Concern
<b>MMRP</b>	Military Munitions Response Program
<b>MOARNG</b>	Missouri Army National Guard
<b>NPL</b>	National Priorities List
<b>PA</b>	Preliminary Assessment
<b>RA</b>	Remedial Action
<b>RAC</b>	Risk Assessment Code
<b>RA(C)</b>	Remedial Action – Construction
<b>RA(O)</b>	Remedial Action – Operation
<b>RAB</b>	Restoration Advisory Board
<b>RC</b>	Response Complete
<b>RD</b>	Remedial Design
<b>REM</b>	Removal
<b>RI</b>	Remedial Investigation
<b>SI</b>	Site Inspection
<b>TAPP</b>	Technical Assistance for Public Participation
<b>TRC</b>	Technical Review Committee
<b>USAEC</b>	US Army Environmental Center

***Installation Locale:*** Camp Clark is an active installation located two miles southeast of the City of Nevada, Missouri, a small city with a population of 9,085. Camp Clark is a rectangular-shaped parcel that encompasses approximately 1,287 acres, most of which is surrounded by a four feet barbed wire fence, with approximately one mile of frontage on the East Outer Road.

***Installation Mission:*** The Missouri National Guard will provide motivated, deployable soldiers, airmen and units to meet the military and civil objectives of the Governor of Missouri and the President of the United States.

***Lead Organization:***

Headquarters, National Guard Bureau

***Lead Executing Agency:***

US Army Corps of Engineers, Omaha District

***Regulatory Participation***

**FEDERAL:** US Environmental Protection Agency, Region 7

**STATE:** Missouri Department of Natural Resources

***National Priorities List (NPL) Status:*** Not on NPL.

***Installation Restoration Advisory Board (RAB)/Technical Review Committee***

***(TRC)/Technical Assistance for Public Participation (TAPP) Status:*** No RAB, TRC or TAPP exist at Camp Clark.

***Installation Program Summaries***

***Military Munitions Response Program (MMRP)***

Primary Contaminants of Concern: Metals, Munitions and Explosives of Concern (MEC) and Munitions Constituents (MC)

Affected Media of Concern: Soil and Groundwater

Estimated Date for RC: 2017

Funding to date (up to FY05): \$0

Current year funding (FY06): \$0

Cost-to-Complete (2007+): \$4,137,000

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## Cleanup Program Summary

### ***Installation Historic Activity***

Camp Clark was established when the federal government acquired 320 acres in April 1908 for use as a State Rifle Range. The facility was expanded by 123.4 acres in July 1912, by 80 acres in October 1917, by 40 acres in January 1918 and by 80 acres in February 1920. These acquisitions, which expanded the facility eastward to a total of 643.6 acres, compose the southern half of Camp Clark. The facility expanded by 643.6 acres in May 1929 to a total of 1,287 acres. That acquisition now composes the northern half of Camp Clark. Currently, the State of Missouri owns 667.1 acres in the northern portion of the facility, as it has since the property was acquired from the federal government in December 1949 for Missouri Army National Guard (MOARNG) purposes. Currently, the federal government owns the southern 619.9 acres of the camp and leases it to the MOARNG, as it has since September 1952.

Camp Clark has served as a MOARNG firing range since 1908. The camp served as a troop mobilization point for the Mexican Border War in 1916 and for World War I in 1918. During World War II, the facility served as a prisoner of war camp, which included four prison compounds and a 200 bed hospital. After World War II, an Organizational Maintenance Shop was established at Camp Clark. During the 1950s the east half of the site was used by armored tanks (driving and maneuvering with no firing) and for light infantry tactics. The facility has served as a field training site since 1963.

Two closed and two transferred ranges were documented to have existed at Camp Clark. These include two former rifle ranges and two former submachine gun ranges. The transferred portion of the Rifle and Pistol Range was used by agreement with the landowners until its discontinued use around 1982. There was no agreement with the private landowners for use of the overshoot area and the transferred portion of the Submachine Gun Range and it was not used by the government after property transfer.

### ***MMRP***

- Prior Year Progress: Preliminary Assessment (PA) completed at all sites.
- Future Plan of Action: A Site Investigation (SI) will be completed at all sites. The installation plans to complete the Supplemental SI and Remedial Investigations/Feasibility Studies (RI/FS) by 2012 and execute follow on phases/actions as required in the individual site cleanup strategies.

# MISSOURI ARMY NATIONAL GUARD

## Military Munitions Response Program

**Total Army Environmental Database-Restoration (AEDB-R) Installation Restoration Program (IRP) Sites / AEDB-R sites with Response Complete (RC):** 4/0

**Different Site Types:**

4 Small Arms Range

**Most Widespread Contaminants of Concern:** Metals, MEC, MC

**Media of Concern:** Soil and Groundwater

**Completed Removal/Interim Remedial Action/Remedial Action (RA):**

None

**Total IRP Funding**

Prior years (up to FY05):	\$0
Current year funding (FY06):	\$0
Future Requirements (FY07+):	<u>\$4,137,000</u>
Total:	\$4,137,000

**Duration of IRP**

Year of IRP Inception: 2003

Year of IRP RC: 2017

Year of IRP Completion including Long-Term Management (LTM): 2017



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# MMRP Contamination Assessment

## ***MMRP Contamination Assessment Overview***

The Phase 3 Army Range Inventory was completed for Camp Clark in October 2003. The inventory identified four sites as eligible for the MMRP. The Phase 3 Inventory serves as the preliminary assessment under Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). A site inspection is scheduled for October 2007

## ***MMRP Cleanup Exit Strategy***

The plan is to complete all SIs by 2007 and execute follow-on phases/actions as required in the individual site cleanup strategies.

### **2003**

US Army Closed Transferred and Transferring Range and Site Inventory Camp Clark, Missouri, October.

# MISSOURI ARMY NATIONAL GUARD

## Military Munitions Response Program Site Descriptions

# CPCK-001-R-01 RIFLE AND PISTOL RANGE

## SITE DESCRIPTION

The rifle and pistol range is a 62.24 acre closed range located in the south-central portion of Camp Clark. The range was delineated by using historic maps provided by the installation. This range was constructed in 1909 and contains a 40 target rifle pit with two firing stands, a target house, a 15 yard and 25 yard pistol range with 14 firing points and a machine gun range qualifying course. Small arms ammunition, such as 5.56mm, .38 cal, .22 cal, and .45 cal, was fired at this range. Camp Clark personnel estimated that this range was used until 1982. This area is currently undeveloped and used for recreation and water training in some areas. No known MEC or MC response has been conducted.

## CLEANUP STRATEGY

An installation wide SI is assigned to this site and an installation wide ASR will be assigned under CPCK-001-R-01. An RI/FS including the installation of groundwater monitoring wells will be completed followed by excavation and off-site waste transportation and disposal.

## STATUS

**REGULATORY DRIVER:** CERCLA

**RAC SCORE:** 5 – Negligible

**CONTAMINANTS OF CONCERN:**  
Metals, MC

**MEDIA OF CONCERN:** Soil,  
Groundwater

Phases	Start	End
PA .....	200306 .....	200311
SI .....	200610 .....	200709
RI/FS .....	201110 .....	201209
RD .....	201510 .....	201609
RA(C) .....	201610 .....	201709

**RC DATE:** 201709

# CPCK-002-R-01

## RIFLE AND PISTOL RANGE - XD

### SITE DESCRIPTION

The Rifle and Pistol Range – XD is the 915.28 acre transferred portion of the Rifle and Pistol Range. It is located off-post in the south-central to southeast corner of Camp Clark. This range was constructed in 1909 and contains a 40 target rifle pit with two firing stands, a target house, a 15 yard and 25 yard pistol range with 14 firing points, and a machine gun range qualifying course. Small arms ammunition, such as 5.56 mm, .38 cal, .22 cal, and .45 cal, was fired at this range. Camp Clark personnel estimated that this range was used until 1982. The safety fan of the Rifle and Pistol Range extended off-post. According to a 1973 memorandum, the Army received written permission from 16 landowners for the Army to use their property as a surface danger zone. The army had the right to exclude unauthorized personnel from entering the surface danger zone during firing on this private land. This area is currently undeveloped and used for agricultural housing. No known MEC or MC response action has been conducted.

### STATUS

**REGULATORY DRIVER:** CERCLA

**RAC SCORE:** 5 – Negligible

**CONTAMINANTS OF CONCERN:**  
None

**MEDIA OF CONCERN:** None

Phases	Start	End
PA .....	200306 .....	200311
SI .....	200610 .....	200710

**RC DATE:** 200710

### CLEANUP STRATEGY

An installation wide SI is assigned to other sites an installation wide ASR will be assigned to this site. Due to frequency and type of use it is not expected that concentrated areas of contamination exist. SI historical review and sampling will be performed for confirmation and close out.

# CPCK-003-R-01

## SUBMACHINE GUN RANGE

### SITE DESCRIPTION

This is a 1.36 acre closed range located in the central, south-central portion of Camp Clark. The range was delineated by locating the collective firing points and then a submachine gun range surface danger zone was placed at this location in the direction of fire (to the south). The range was constructed around 1935 and used until approximately 1982. The Submachine Gun Range had four firing points for the firing of .45 cal ammunition south into a berm within the range area (with it respective surface danger zone extending off-post. This area is currently undeveloped. No known MEC or MC response has been conducted.

### CLEANUP STRATEGY

An installation wide SI is assigned to this site an installation wide ASR will be assigned under CPCK-001-R-01. An RI/FS including the installation of groundwater monitoring wells will be completed followed by excavation and off-site waste transportation and disposal.

### STATUS

**REGULATORY DRIVER:** CERCLA

**RAC SCORE:** 5 – Negligible

**CONTAMINANTS OF CONCERN:**  
Metals, MC

**MEDIA OF CONCERN:** Soil,  
Groundwater

Phases	Start	End
PA .....	200306 .....	200311
SI .....	200610 .....	200709
RI/FS .....	201110 .....	201209
RD .....	201510 .....	201609
RA(C) .....	201610 .....	201709

**RC DATE:** 201709

# CPCK-004-R-01

## SUBMACHINE GUN RANGE - XD

### SITE DESCRIPTION

This 139.93 acre range is the transferred portion of the Submachine Gun Range. It is located off-post near the south-central border of Camp Clark. The range was constructed around 1935 and used until approximately 1982. This range had four firing points for the firing of .45 cal ammunition. This range is comprised of the surface danger zone of the Submachine Gun Range that extends off-post. This area is currently undeveloped and used for agriculture without housing. No known MEC or MC response has been conducted.

### CLEANUP STRATEGY

An installation wide SI is assigned to this site an installation wide ASR will be assigned under CPCK-001-R-01. An RI/FS including the installation of groundwater monitoring wells will be completed followed by excavation and off-site waste transportation and disposal.

### STATUS

**REGULATORY DRIVER:** CERCLA

**RAC SCORE:** 5 – Negligible

**CONTAMINANTS OF CONCERN:**  
Metals, MC

**MEDIA OF CONCERN:** Soil,  
Groundwater

Phases	Start	End
PA .....	200306 .....	200311
SI .....	200610 .....	200709
RI/FS .....	201110 .....	201209
RD .....	201510 .....	201609
RA(C) .....	201610 .....	201709

**RC DATE:** 201709

***Initiation of MMRP:*** 2003

***Past Phase Completion Milestones***

**2003**

- PA at all sites

***Projected ROD/DD Approval Dates:*** Unknown

***Projected Construction Completion:*** 2017

***Schedule for Five Year Reviews:*** Unknown

***Estimated Completion Date of MMRP including LTM:*** 2017



**MISSOURI ARNG MMRP SCHEDULE**  
(Based on current funding constraints)

AEDB-R#	PHASE	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15+
CPCK-001-R-01	SI									
	RI/FS									
	RD									201609
	RA(C)									201709
CPCK-002-R-01	SI									
CPCK-003-R-01	SI									
	RI/FS									
	RD									201609
	RA(C)									201709
CPCK-004-R-01	SI									
	RI/FS									
	RD									201609
	RA(C)									201709

### *Prior Years Funds*

**Total Funding up to FY04: \$0K**

<b>Year</b>	<b>Site Information</b>	<b>Expenditures</b>	<b>FY Total</b>
<b>FY05</b>			<b>\$0K</b>

**Total Prior Year Funds: \$0K**

### *Current Year Requirements*

<b>Year</b>	<b>Site Information</b>	<b>Expenditures</b>	<b>FY Total</b>
<b>FY06</b>			<b>\$0K</b>

**Total Future Requirements: \$4,137K**

**Total MMR Program Cost (from inception to completion of the MMRP): \$4,137K**

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## Community Involvement

Community involvement will not be required until after the completion of the SI phase. Following the SI phase community involvement will be solicited in accordance with CERCLA.